



Remote Viewer Guide

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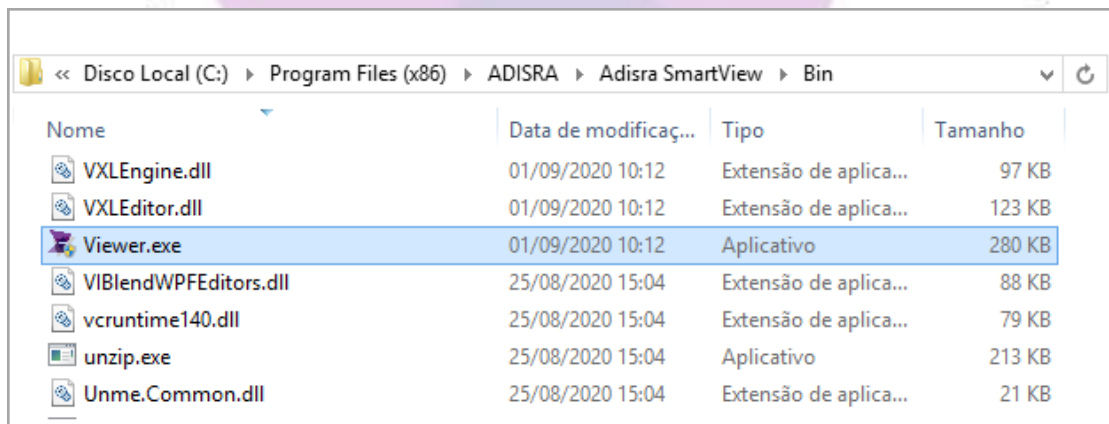
1. Scope

This document is only for Microsoft Windows Operating System.

The ADISRA SmartView Remote Viewer Guide explains how remote access works internally and the steps to follow to deploy the remote access feature within ADISRA SmartView.

2. Summary

Remote Viewer is a tool which allows the user to connect the Viewer to ADISRA SmartView runtime on a local or remote computer. To execute the Remote Viewer, the user needs to run the full installation of ADISRA SmartView and then execute the Viewer.exe



Nome	Data de modificaç...	Tipo	Tamanho
VXLEngine.dll	01/09/2020 10:12	Extensão de aplica...	97 KB
VXLEditor.dll	01/09/2020 10:12	Extensão de aplica...	123 KB
Viewer.exe	01/09/2020 10:12	Aplicativo	280 KB
VIBlendWPFEditors.dll	25/08/2020 15:04	Extensão de aplica...	88 KB
vcruntime140.dll	25/08/2020 15:04	Extensão de aplica...	79 KB
unzip.exe	25/08/2020 15:04	Aplicativo	213 KB
Unme.Common.dll	25/08/2020 15:04	Extensão de aplica...	21 KB

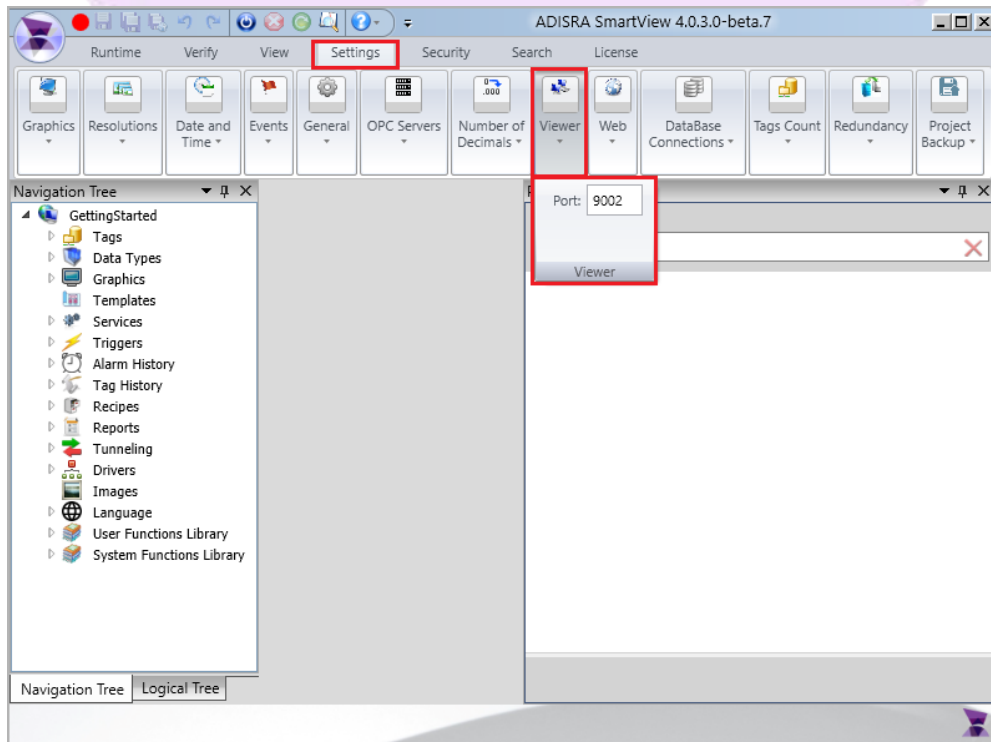
When the Remote Viewer connects to the remote runtime application, it requests the Graphics which will be opened. **It is not necessary to manually copy the application to the machine where the Remote Viewer will be executed.** This is an important feature since the application will be only placed in the machine where the runtime is running. There will be no need to keep applications in different machines. Additionally, whenever a change is made on a Graphics layout (i.e. added an extra label on engineering), this change will already be available to the Remote Viewer, the user needs to re-open the updated Graphics. When logic has been updated in a Service, Trigger, Driver, or any module that is part of the runtime, the user must restart the runtime process and the Remote Viewer will be automatically disconnected/closed.

3. Configuring the Runtime

Every Remote Viewer needs to connect to a ADISRA SmartView runtime process. We will look at the runtime configuration first.

To configure the project that is going to be executed, follow the steps below:

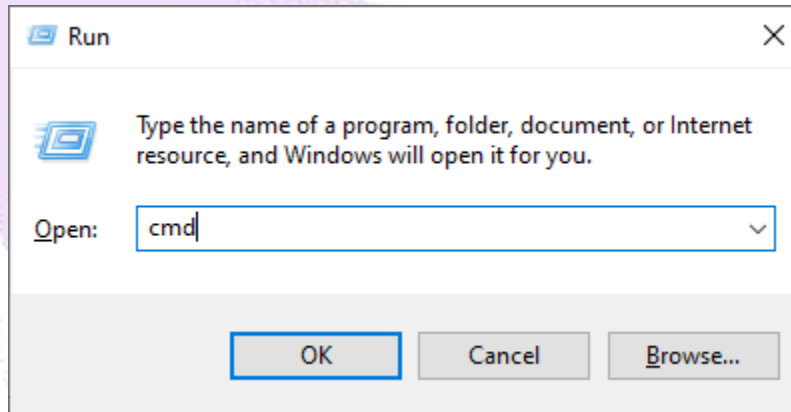
On the Settings Ribbon, select the Viewer tab and enter a port number, the default port is "9000" but it can be changed if that port is already in use.



3.1. Check the Ports Being Used

This step is only needed if it is uncertain if the port is already in use. Stop the application if it is running.

- Press "Windows+R" and type "cmd" and click OK to open the Command Prompt:



- In the Command Prompt type "netstat -an" and see the ports that are being used. Make sure the port to be configured is not listed. If it is, select a different port number that is not being used.

 A screenshot of the Windows Command Prompt window. The title bar says 'Command Prompt'. The command prompt shows the command 'C:\>netstat -an' and its output. The output is a table of active connections.


```

C:\>netstat -an

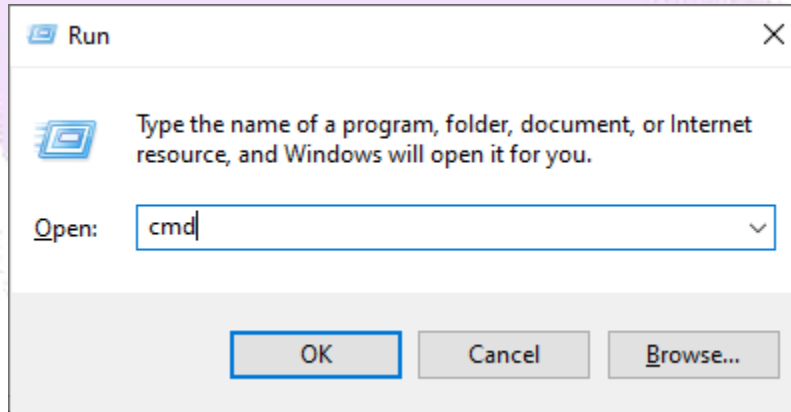
Active Connections

Proto Local Address           Foreign Address         State
TCP   0.0.0.0:80                0.0.0.0:0               LISTENING
TCP   0.0.0.0:135               0.0.0.0:0               LISTENING
TCP   0.0.0.0:443               0.0.0.0:0               LISTENING
TCP   0.0.0.0:445               0.0.0.0:0               LISTENING
TCP   0.0.0.0:3389              0.0.0.0:0               LISTENING
TCP   0.0.0.0:4840              0.0.0.0:0               LISTENING
TCP   0.0.0.0:5040              0.0.0.0:0               LISTENING
TCP   0.0.0.0:5432              0.0.0.0:0               LISTENING
TCP   0.0.0.0:7680              0.0.0.0:0               LISTENING
TCP   0.0.0.0:48400             0.0.0.0:0               LISTENING
TCP   0.0.0.0:48401             0.0.0.0:0               LISTENING
TCP   0.0.0.0:49664             0.0.0.0:0               LISTENING
TCP   0.0.0.0:49665             0.0.0.0:0               LISTENING
TCP   0.0.0.0:49666             0.0.0.0:0               LISTENING
  
```

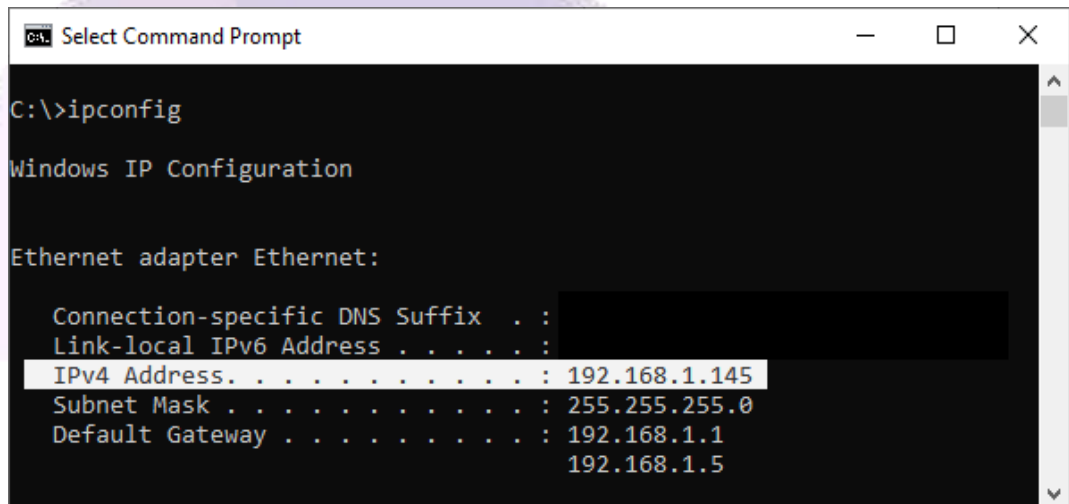
3.2. Check the IP Address of the Executing Machine

The IP Address and the port number configured in the project will be used to create the connection between the Remote Viewer and the Runtime. Please follow the instruction below to obtain the correct IP Address for the machine where the Runtime is being executed.

- Press "Windows+R" and type "cmd" and click OK to open the Command Prompt:



- In the Command Prompt type "ipconfig" and check the IPv4 Address, this will be used later. In this example, it is "192.168.1.145".

A screenshot of a Windows Command Prompt window titled 'Select Command Prompt'. The prompt shows the command 'C:\>ipconfig' and its output. The output is as follows:

```
Windows IP Configuration

Ethernet adapter Ethernet:

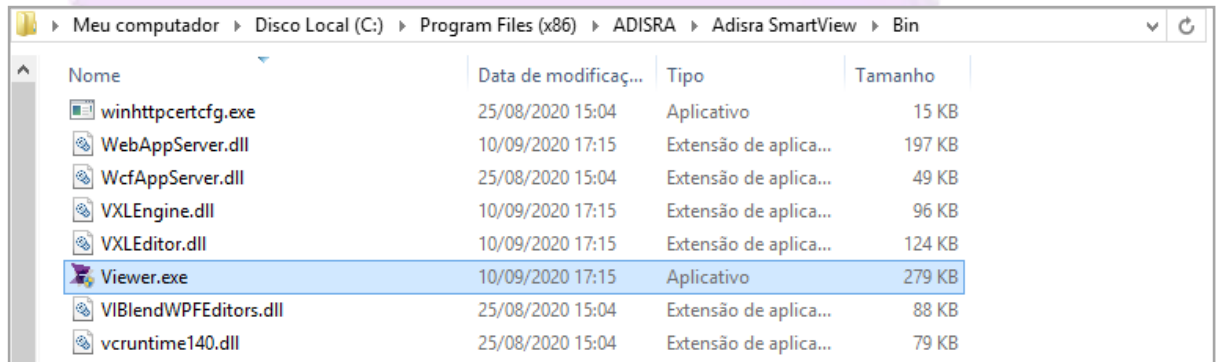
    Connection-specific DNS Suffix  . : 
    Link-local IPv6 Address . . . . . : 
    IPv4 Address. . . . . : 192.168.1.145
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.1.1
                               192.168.1.5
```

The line 'IPv4 Address. : 192.168.1.145' is highlighted with a white background.

4. Configure the Remote Viewer

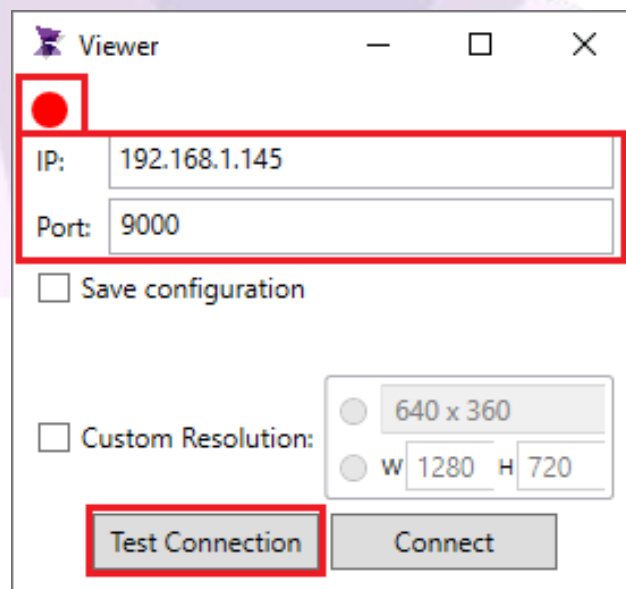
To configure the Remote Viewer to connect to the executed Runtime from another machine, follow the steps below:

Open the Viewer. To open the Viewer, the user must navigate to the

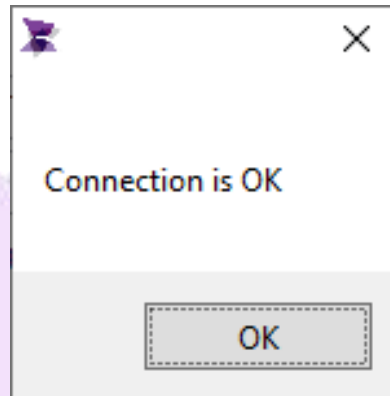


ADISRA SmartView installation bin folder and double click Viewer.exe.

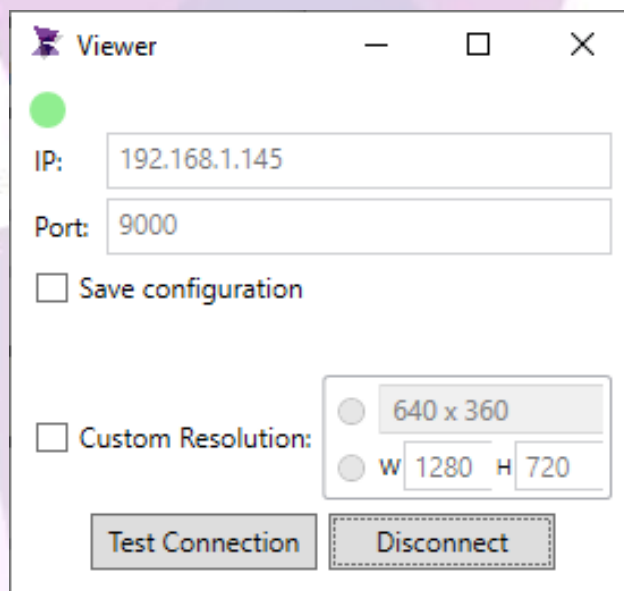
NOTE: The red circle in the image below indicates the Viewer is not connected to an executing Runtime; set the IP Address and designate the port to be configured (as shown in the last chapter) then test the connection.



If everything is configured correctly, this message will be displayed. Remember that ADISRA SmartView Runtime must be running.



Then click the "Connect" button, the default graphic of the executing project will open. Now the Viewer has a green circle indicating it is connected to Runtime.

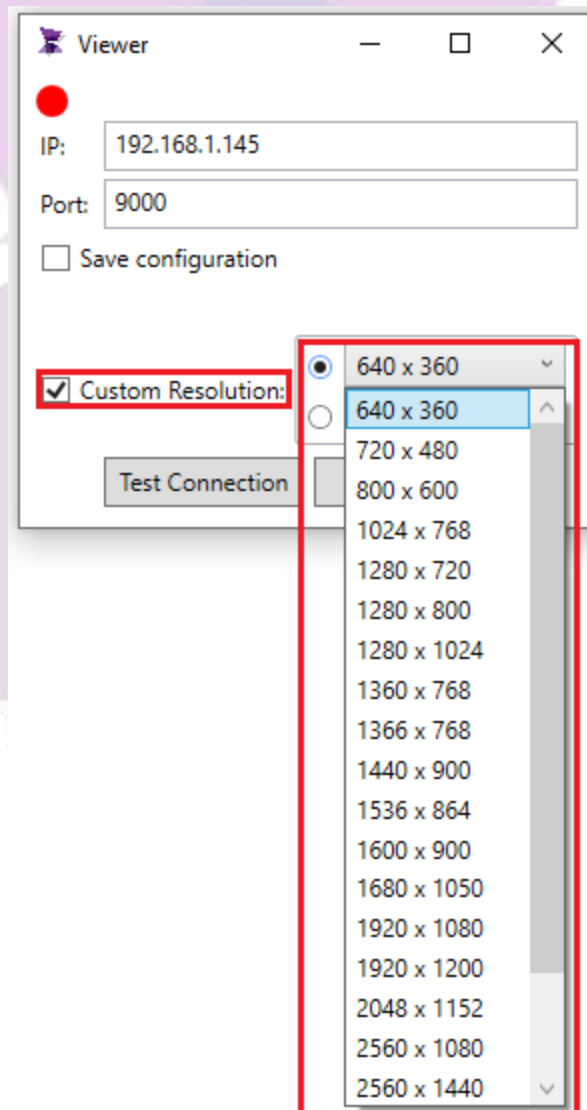


5. Custom Resolution

In this section, understand how to configure the custom resolution of the Remote Viewer.

If the machine selected for the Remote Viewer has a different resolution than the initial machine intended for the project, then the Viewer's resolution can be changed. Click the "Custom Resolution" check box. Two options are offered:

- First option, click the down arrow on the far right of the first resolution box and the box will descend displaying available resolutions. Select the desired resolution.



- Or, click the second box and type in the desired resolution.

Viewer

IP: 192.168.1.145

Port: 9000

Save configuration

Custom Resolution:

640 x 360

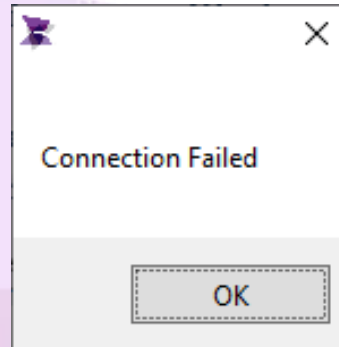
w 1280 h 720

Test Connection Connect

6. Possible Errors

6.1. Connection Failed

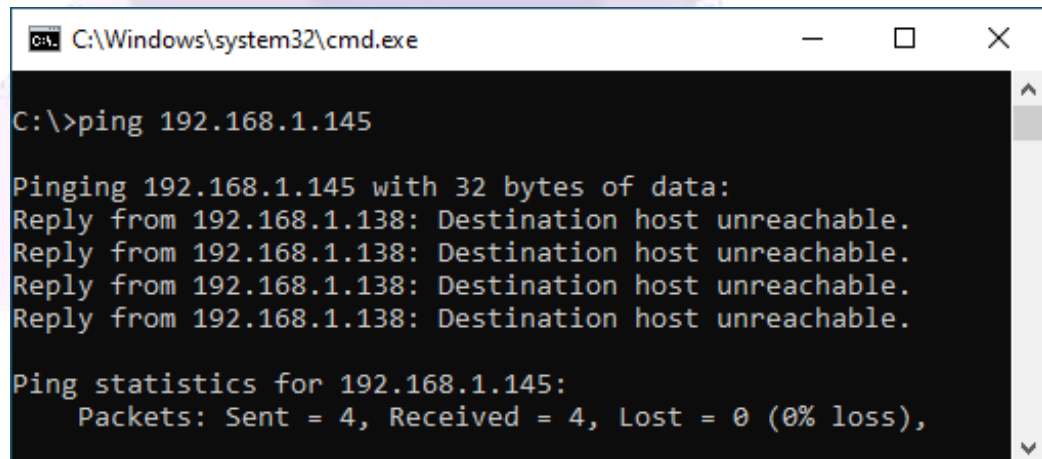
When testing the connection with the Remote Viewer and the connection failed message appears:



To resolve this issue, first make sure the Runtime is running on the remote machine. Also, make sure the Runtime IP Address and the port number are correct.

Next, click if the network is operating properly. Open the CMD (Command prompt) and ping the Runtime IP Address:

"ping 192.168.1.145".

A screenshot of a Windows Command Prompt window. The title bar reads "C:\Windows\system32\cmd.exe". The command prompt shows the following text:

```
C:\>ping 192.168.1.145

Pinging 192.168.1.145 with 32 bytes of data:
Reply from 192.168.1.138: Destination host unreachable.
Reply from 192.168.1.138: Destination host unreachable.
Reply from 192.168.1.138: Destination host unreachable.
Reply from 192.168.1.138: Destination host unreachable.

Ping statistics for 192.168.1.145:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
```

If the ping fails, there is a problem with the network.

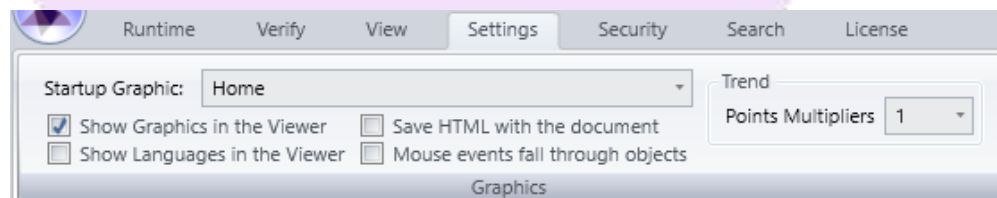
6.2. Application Does Not Open

This might not be an error. Confirm the project has a Startup Graphic. To confirm the project has a Startup Graphic configured:

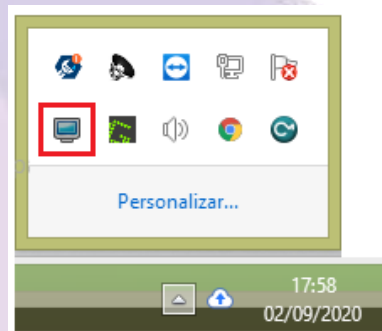
Select "Settings" to display the Startup Graphic box.

Page "Home" is the "Startup Graphic".

When the user runs the Remote Viewer, it will connect to Runtime and the Home page will be displayed for the user. If there is not a "Startup Graphic" configured, nothing will be displayed.



Alternatively, a Graphic maybe opened from the Windows notification area located on the screen's bottom right near the system clock. Right click on the highlighted icon, click on the "Graphics" option, then click on the Graphics to be opened.



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